

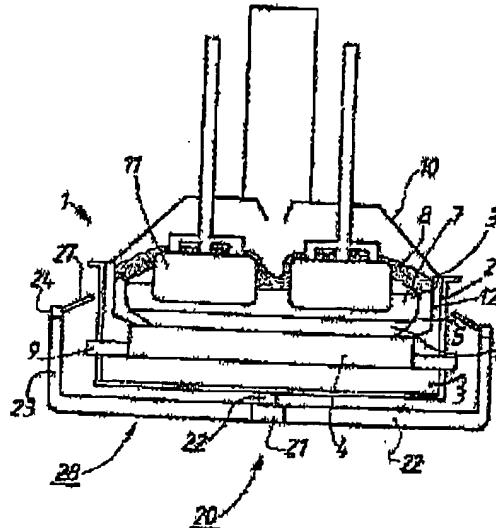
Electrolysis cell for production of aluminum by Hall-Heroult electrolysis process, incorporating a cooling system

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Electrolysis comprises a steel caisson, some inner coating elements and a cathode assembly. The cell incorporates cooling system that blows localized jets of air distributed around the caisson, advantageously at a variable rate, to allow the evacuation and dissipation of the thermal energy generated in the electrolysis cell. An independent claim is given for an aluminum production unit incorporating these electrolysis cells, in which the cooling system is applied individually or in common with two or more such cells.

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